

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): An apparatus for cutting a core, which is a cylindrical pipe made of paper of which the thickness is appropriate for information to be written in ink, around which a long recording material is wound successively in a widthwise direction perpendicular to a winding direction of the recording material, the apparatus comprising:

a cutting mandrel, which is insertable into the core such that its outer peripheral surface comes into contact with an inner surface of the core;

a disc-shaped cutting blade positioned opposite to the outer periphery of the core and having a cutting edges at its circumference;

a ring-shaped groove formed on the cutting mandrel so as to correspond to a cutting position of the cutting blade in the axial direction of the cutting ~~mandrel~~:mandrel;

a rotating device for rotating the core, which is supported by the cutting mandrel;

a cutting blade rotating device for rotating the cutting blade, wherein a difference between linear rotation velocities of the core rotating device and the cutting blade rotating device is controlled within a certain range; and

a controller which controls the rotational linear velocities of the cutting blade and the core to be substantially equal so that a cutting surface of the core is preserved so that when information is written on the cutting surface an ink adhesive on the cutting surface is preserved.

2. (canceled).

3. (currently amended): An apparatus for cutting a core, which is a cylindrical pipe made of paper of which the thickness is appropriate for information to be written in ink, around which a long recording material is wound successively in a widthwise direction perpendicular to a winding direction of the recording material, the apparatus comprising:

    a cutting mandrel, which is insertable into the core such that its outer peripheral surface comes into contact with an inner surface of the core;

    a disc-shaped cutting blade positioned opposite to the outer periphery of the core and having a cutting edges at its circumference;

    a ring-shaped groove formed on the cutting mandrel so as to correspond to a cutting position of the cutting blade in the axial direction of the cutting mandrel:

    a rotating device for rotating the core, which is supported by the cutting mandrel;

    a cutting blade rotating device for rotating the cutting blade, wherein a difference between linear rotation velocities of the core rotating device and the cutting blade rotating device is controlled within a certain range so that a cutting surface of the core is preserved so that when information is written on the cutting surface an ink adhesive on the cutting surface is preserved;

and

    a pair of rotating members positioned opposite to each other at inner and outer cutting surfaces of the core cut with the cutting blade, wherein one rotating member rotates in an

opposite direction relative to that of the other rotating member and said rotating members have tapered cutting surfaces for smoothing and removing burrs formed on an inner periphery of the core.

4. (original): The apparatus according to claim 1, further comprising a main stage and a standby stage mounted adjoiningly to the main stage, wherein the standby stage includes a rail section and a carrier supported thereto, wherein the carrier is guided along the rail section, so that the standby stage is movable toward or away from the main stage, and wherein the cutting mandrel is attached to the carrier.

5. (canceled).

6. (currently amended): The apparatus according to ~~claim 2~~claim 1, wherein the core rotating device and the cutting mandrel rotating device are rotated by a common driving source.

7. (previously presented): The apparatus according to claim 4, wherein the cutting mandrel is positioned coaxially corresponds with the axis of the core supported on a supporting portion included in the main stage.

8. (previously presented): The apparatus according to claim 7, wherein the core rotating device includes a driving chuck unit provided on the main stage opposite to the standby

stage, wherein the driving chuck unit includes a holder section for holding an end of the core and a leading edge of the cutting mandrel approaches the core from the standby stage.

9. (previously presented): The apparatus according to claim 8, wherein the driving chuck unit includes a driving section and the holder section holds the cutting mandrel and the core to be rotatable by a driving force of the driving section.

10. (original): The apparatus according to claim 8, wherein a rail section is mounted at the main stage from the standby stage to the driving chuck unit, wherein a cutting unit is supported on the rail section, said cutting unit being configured such that it is guided along the rail section and movable from the standby stage to the driving chuck unit, and the cutting blade is fixed upon the cutting unit.

11. (previously presented): The apparatus according to claim 10, wherein a rotational axis of the cutting blade is parallel to axes of the held cutting mandrel and the core, and is rotatable by the driving section of the cutting unit.

12. (previously presented): The apparatus according to claim 10, wherein the cutting unit is moved along the rail section at intervals and, at respective positions, is moved toward or away from the core, and depending upon the intervals of the cutting unit, the width of a groove formed on the cutting mandrel ranges between 0.1 mm and 1.0 mm.

13. (previously presented): The apparatus according to claim 11, wherein a thickness-wise dimension of the cutting blade from a central axis is formed so as to be thicker than a thickness-wise dimension of the periphery edge formed by the blade.

14. (original): The apparatus according to claim 12, wherein the width of the groove ranges between 0.2 mm and 0.6 mm.

15. (original): The apparatus according to claim 12, wherein the groove is formed by being carved to a depth corresponding to the cutting mandrel.

16. (currently amended): An apparatus for cutting a core, which is a cylindrical pipe made of paper of which the thickness is appropriate for information to be written in ink, around which a long recording material is wound successively in a widthwise direction perpendicular to a winding direction of the recording material, the apparatus comprising:

    a cutting mandrel, which is insertable into the core such that its outer peripheral surface comes into contact with an inner surface of the core;

    a disc-shaped cutting blade positioned opposite to the outer periphery of the core and having a cutting edges at its circumference;

    a ring-shaped groove formed on the cutting mandrel so as to correspond to a cutting position of the cutting blade in the axial direction of the cutting ~~mandrel~~:mandrel;

a rotating device for rotating the core, which is supported by the cutting mandrel;  
and

a cutting blade rotating device for rotating the cutting blade, wherein a difference  
between linear rotation velocities of the core rotating device and the cutting blade rotating device  
is controlled within a certain range so that a cutting surface of the core is preserved so that when  
information is written on the cutting surface an ink adhesive on the cutting surface is  
preserved;[.,]

wherein the cutting mandrel comprises a main pipe and a plurality of mandrel  
pieces sequentially inserted around the main pipe, an edge of each mandrel piece comprising a  
recess and a protrusion, and when the mandrel pieces are sequentially inserted around the main  
pipe, the leading tips of the protrusions come in contact with each other so that a gap, which  
serves as the groove, is formed at the outer peripheral ends of the mandrel pieces.

17. (original): The apparatus according to claim 14, wherein the width of the groove  
ranges between 0.3 mm and 0.5 mm.

18. (currently amended): A method for cutting a [[a]] core, which is a cylindrical pipe  
made of paper of which the thickness is appropriate for information to be written in ink, around  
which a long recording material is wound in layers, in a widthwise direction perpendicular to a  
winding direction of the recording material, the method comprising:

rotating a disc-shaped cutting blade such that a cutting mandrel is inserted into the core with an inner periphery of the core contacting an outer periphery of the cutting mandrel;

upon cutting at an axial position of the core, the core is cut while being rotated in such a manner that the rotational linear velocities of the core and the cutting blade is controlled to be substantially equal so that a cutting surface of the core is preserved so that when information is written on the cutting surface an ink adhesive on the cutting surface is preserved.

19. (currently amended): The method according to claim 18, further comprising forming a ring-shaped groove on the cutting mandrel corresponding to the cutting blade, wherein the groove is formed such that ~~interference~~interference between cutting edges of the cutting blades and the cutting mandrel is avoided when cutting.

20. - 22. (canceled).

21. (canceled).

23. (previously presented): The method according to claim 18, further comprising a step of deburring ends of the core after it is cut.

24. (previously presented): The method according to claim 18, further comprising recording information on ends of the core after it is cut.

25. (previously presented): The method according to claim 18, further comprising winding the recording material on the core after the core is cut.